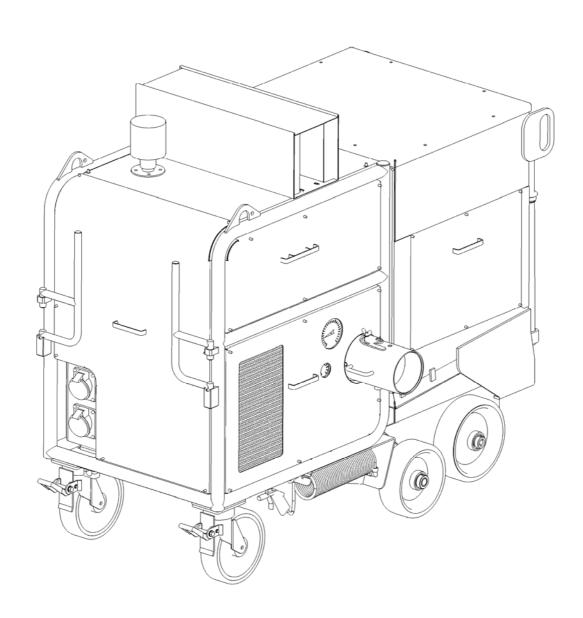
# Operating Instructions BDC-655





MAN-BDC-655-EN - REV.A



#### **Blastrac BV**

Utrechthaven 12 3433 PN Nieuwegein THE NETHERLANDS T +31(0)30 - 601 88 66 F +31(0)30 - 601 83 33 E info@blastrac.nl





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# 



## **Technical data**

## **Contents Chapter 1**

- 1.1 Rating
- 1.2 Unit specifications
- 1.3 Operative range and correct usage
- 1.4 Stand-by power supply
- 1.5 Machine type designation



#### **Technical data**

#### 1.1 Rating

Unit / designation: Blastrac dust collector

Machine type **BDC-655** 

Manufacturer



**Blastrac BV** 

Utrechthaven 12 NL-3433PN Nieuwegein THE NETHERLANDS T +31(0)30 - 601 88 66 F +31(0)30 - 601 83 33 E info@blastrac.nl

I www.blastrac.com



## **Technical data**

## 1.2 Unit specifications

#### Technical data

Duet cellector	BDC-655			
Dust collector	50 Hz	60 Hz		
Power consumption		-		
Screw conveyor				
Power consumption	5,5 kW 6,4 kW			
Fan / compressor				
Power consumption	5,5 kW 6,4 kW			
Dust collector				
Input current Screw	-	-		
conveyor				
Input current Fan /	max.11A	max.11A		
compressor				
Input current Dust	-	-		
collector	1000 : -1	4400 : -1		
Rated speed	1080 min <sup>-1</sup>	1100 min <sup>-1</sup>		
Compressor	1110 : -1	4500 · -1		
Rated speed Fan	4440 min <sup>-1</sup>	4530 min <sup>-1</sup>		
Enclosure	IP 54			
Compressor	I.D.	\ <b>.</b>		
Enclosure Fan	IP 54			
Connected loads		440V, 60Hz,		
Durat hasa	63A CEE Plug 60A UL Plug			
Dust hose	Ø 130 mm / Ø 150 mm			
connection	20			
Dust hose length	20 m			
Pressure adjusting	6-7 bar			
Compressor				
Pressure differential	50-150 mm/WS			
Filter surface (MAX)	2-6 inch/ WG			
Dedusting interval	15 s			
Airflow	1250 m³/h			

Connected loads (electrical system):

The indicated input current values correspond to the nominal current values of the motors working under full load. These values are not achieved under normal operating conditions.



#### **Technical data**

#### **Dimensions:**

	Dust collector BDC-655		
Length	1730	mm	
Width	800	mm	
Height	1350	mm	
Weight	600	kg	

#### 1.3 Operative range and correct usage



The dust collector BDC-655 is exclusively designed to be used with Blastrac equipment only.

It is designed to vacuum dry dust specified to be Class L. (E DIN IEC 61J/94 CD)

The Filter material FA 6176 is certified to DIN/EN DUST CLASSIFICATION CLASS L and M.

Do not use this equipment on applications where you expect dust that is classified to be harmful. If feel uncertain ask local authorities for vou assistance.

The manufacturer will not be liable for damage resulting out of from incorrect use.

In these cases the user assumes all risks.

#### **Dust collector BDC-655:**

The dust collector BDC-655 is exclusively designed to be used with the blast cleaning machines sizes 1-10, 1-15, 2-20, 350 and 350VH.



**Technical data** 

#### 1.4 Stand-by power supply (Generator)

If the dust collector BDC-655 is operated using a generator, this generator must be operated in accordance with the current VDE directives (this applies to the protective earth conductor in particular) in order to ensure that all safety devices are functioning and to eliminate possible damage to electrical components.



#### 1.5 Machine type designation

BDC - 6 - 55 Dust Collector \_\_\_ number of filters \_\_\_\_ 5.5 kW motor power \_\_\_



## **Technical data**



## **Safety instructions**

#### **Contents Chapter 2**

- 2.1 Warnings and symbols
- 2.2 Organisational measures
- 2.3 Personnel selection and qualification
- 2.4 Safety precautions applicable to some operating sequences
- 2.5 Special work within the scope of use of the dust collector and maintenance activities as well as repairs during operation
- 2.6 Precautions applicable to some particular dangerous categories
- 2.7 Oils, greases and other chemical substances
- 2.8 Safety off position
- 2.9 Particular dangerous aspects of the equipment Safety regulations Electric
- 2.10 Regulations
- 2.11 Pay attention to the order of the following five golden rules



**BDC-655** 

#### Safety instructions

#### Warnings and symbols

The following denominations and symbols are used in the Operating Instructions to highlight areas of particular importance:





Symbol of operational safety.

In these Operating Instructions this symbol will be shown next to all safety precautions that are to be taken in order to ensure prevention to life and injury. Follow these instructions and take special care in addition circumstances. these In to instructions, the general safety precautions and accident prevention guidelines are also to be followed.



Particular details regarding the economical use of the dust collector.











Information, instructions and restrictions with regard to possible risks to persons or to extensive material damages.



## **Safety instructions**

Warning against dangerous voltages.



Indications relating to protective devices in electrical appliances.



**Indications** where consultation with the manufacturer of the dust collector is required.



Instructions relating to periodical checks.



Reference to important instructions contained in the **Operating Instructions.** 





**BDC-655** 

#### Safety instructions

#### 2.2 Organisational measures



The Operating Instructions are to be kept near the location where the dust collector is located and must be within reach at all times!

In addition to the Operating Instructions general and legal regulations regarding accident prevention and environmental protection must be complied with and indicated!

Such duties may for example relate to the handling of hazardous substances or to the provision and wearing of personal protection equipment as well as compliance with traffic regulations.

The Operating Instructions must be supplemented by instructions including the duty to supervise and report relating to particular working practices, for example work organisation, work procedures and personnel allocation.



Personnel entrusted with working with the dust collector must have read the Operating Instructions before starting work, in particular the Safety Instructions chapter. To read these instructions during work is too late. This particularly applies to incidental activities such as setting up the equipment, carrying out maintenance work or training staff to work with the **dust collector**.

From time to time the working practices of the staff are to be **checked** regarding awareness of safety and hazards.

Personnel must tie back long hair and not wear loose clothing or jewellery including rings. There is a risk of injury through getting stuck or being drawn into moving machinery.



Use **personnel protection equipment** if necessary or required by regulations! Take notice of all safety and hazard notices on the dust collector!

All safety and hazard notices at or on the dust collector must be kept complete and legible!



#### Safety instructions

If safety-critical changes occur to the dust collector or its working method, the dust collector must be shut down immediately! The cause of the fault must be established immediately!

Changes, add-ons or conversions to the dust collector which might impair safety must not be undertaken without the manufacturer's permission!



This applies in particular to the fitting and adjustment of safety devices as well as to welding on load-bearing parts.

Spare parts must comply with the technical requirements specified by the manufacturer. This is always guaranteed if original spare parts are used.

Intervals for recurring checks and inspections specified in these Operating Instructions must be complied with!



To perform maintenance work correctly it is imperative to be equipped with the proper tools for the task in question.

The location and the operation of fire extinguishers must be made known on each building site!

Take note of the facilities for reporting and fighting fires!

#### 2.3 Personnel selections and qualification

Fundamental duties:

Work on the dust collector may only be undertaken by reliable personnel. Note the statutory minimum age!

Only trained personnel may be deployed. Specify clearly the responsibilities of personnel for operation, setting up, servicing and maintenance work!

Make sure that only authorised personnel operate or work on the dust collector!

Define responsibilities of the equipment operator also regarding to traffic safety regulations and empower him to decline instructions from third parties which are not complying with the safety requirements!



**BDC-655** 

#### Safety instructions

Personnel being trained or made acquainted with the equipment may only be deployed on the dust collector under constant supervision of an experienced person!



Work on **electrical** equipment or operating materials may only be undertaken by a skilled electrician or by trained persons under the guidance and supervision of a skilled electrician as well as in accordance with the electrical engineering regulations.

2.4 Safety precautions applicable to some operating sequences

#### Standard operation

Ban any method of working that **impairs safety!** 

Some measures have to be taken in order to operate the dust collector in safe and operative conditions!



Only operate the dust collector when all safety devices and related safety equipment, e.g. detachable safety devices, emergency stops, sound insulations and suction devices are present and operational!

Check the dust collector visually for any damage and defects at least once a day!

If alterations or changes appear (inclusive of operating performance), inform immediately the responsible!

Shut down immediately the dust collector and secure it, if necessary!

In the event of operational malfunctions the dust collector must be shut down immediately and secured!



Do not work with the Blastrac dust collector when it rains or on moist surfaces! Do not expose the filter cartridges to moisture!



#### Safety instructions

Faults must be immediately rectified!

Carry out the switch on and off operations and pay attention to control display according to the operation manual!

Before switching on the **dust collector** make sure that no-one can be endangered when the dust collector starts up!

Do not switch off or remove the exhaust and ventilation devices when the dust collector is running!

2.5 Special work within the scope of use of the dust collector and maintenance activities as well as repairs during operation

Adjustment, servicing and inspection work and time limits specified in these Operating Instructions as well as any information on the replacement of parts and equipment must be undertaken and/or complied with!



These activities may only be undertaken by **qualified personnel**.

The operator has to be informed about all kind of maintenance works before starting the process!

#### Nominate a responsible person!

At all works that are related to normal operation, conversion of tools adjustment of the dust collector and its safety devices as well as before inspection, maintenance and repair all ON and OFF functions have to be carried out according the operation manual and advises for maintenance and repair.

Secure the maintenance area, if necessary!

If the dust collector is switched off in order to do maintenance, repair or adjustment it has to be secured against unintended restart.

Switch OFF and disconnect it from the power supply and secure the main switch with a padlock.



**BDC-655** 

#### Safety instructions

Always dispose the contents of the dust bin of the dust collector before **loading** it on van or truck.

Observe the waste disposal regulations, in uncertain situation ask your next policy level.





Use only extension cable for extending the main cable that are sized and marked in accordance with the overall power consumption of the dust collector and of the connected blast cleaning machine and the valid VDE guidelines.



All persons in the proximity of the dust collector, when it is working, must wear safety glasses with lateral protection and safety shoes. The operator is obliged to wear close-fitting protective clothing.

Do not use any **aggressive** cleaning materials! Use lint-free cleaning cloths!

Always tighten any screw connections that are undone during servicing and maintenance work!

If safety devices need to be taken off or dismantled during service and repair, these safety devices must be reinstalled and inspected immediately after completion of the servicing and repair work.

Make sure that process materials and replaced parts are disposed of safety and in an environmentally-friendly manner!

2.6 Precautions applicable to some particular dangerous categories

#### Gases, Dust, Steam, Smoke



Do not weld, flame cut or perform grinding works on the dust collector without express authorization. It exists danger of fire or explosion!

Only work when the dust collector has been switched off and is in the safety off position.



Before welding, flame cutting or grinding, remove all dust and combustible materials from the dust collector and from the area and provide adequate ventilation (risk of explosion)!

## 



#### **Safety instructions**

When working in a confined space, adhere to the appropriate national safety regulations!

Switch off the connected dust collector.

Place fire extinguishers and fire blankets within easy reach of potential fire hazards.

#### 2.7 Oils, greases and other chemical substances

If you use oils, fats and other chemical substances observe the safety regulations in force!

#### 2.8 Safety off position

#### **Definition:**

The dust collector is in a safe condition when it cannot generate any hazard.

Putting the equipment in the Safety off position means:

- $\overline{\mathbf{Q}}$ Put the connected blast cleaning machine in the safety off position according to the instructions.
- $\overline{\mathbf{V}}$ Switch off the fan.
- $\overline{\mathbf{A}}$ Switch off the compressor.
- $\mathbf{\Lambda}$ Wait for standstill of all drives.
- $\overline{\mathbf{A}}$ Pull out main plug.
- $\overline{\mathbf{A}}$ Secure main switch with a padlock.



## Safety instructions

#### 2.9 Particular dangerous aspects of the equipment



Any dust collector, if it is not used according the regulations, may be hazardous for operating, setting-up and service personnel. The operating authority is responsible for compliance with the safety regulations during operation and maintenance of safety devices supplied with the dust collector as well as the provision of appropriate additional safety devices!

Dangerous aspects of the equipment are:

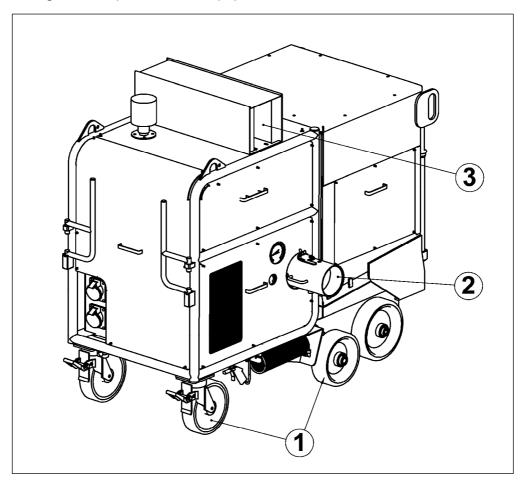


Fig 2.9.1

- 1 Wheels
- 2 Air inlet
- 3 Air outlet



#### **Safety instructions**

#### 2.10 Regulations

area.

Work on electrical equipment or operating materials may only be undertaken by a skilled electrician or by trained persons under the guidance and supervision of a skilled electrician as well as in accordance with the electrical engineering regulations.



The electrical equipment for the plant must be inspected regularly. Defects such as loose connections or scorched cables must be rectified immediately. Call a skilled electrician or our Customer Services.

Be sure that the operators and maintenance personnel are familiar with the following:

the dust collector is in <b>standstill</b> .
Make sure that the dust collector can not be set working during the duration of the works.
Do not <b>open</b> or <b>remove protective guards</b> while driving gears are running.
Once cleaning, lubrication or repair works are finished do not forget to <b>fix</b> again the <b>safety devices</b> .
Do not touch any moving parts or stand in their path
After cleaning, lubrication and repair works and before starting

A second person must be at side in order to manipulate the emergency switch or rather the main switch with overvoltage release if maintenance or repair requires working on live parts.

the dust collector, be certain that any person is in a dangerous

The work area must be blocked off using a red and white safety chain and a danger sign. Use a tool that is insulated against voltages.

Only start work once you are familiar with the electrical engineering regulations that apply to your area.



**BDC-655** 

#### Safety instructions

#### 2.11 Pay attention to the order of the following five golden rules

- Disconnect all
- 2. Secure it against unintended restart
- 3. Check that there is any electric tension
- 4. Earthing and short-circuiting
- 5. Put a barrier or cover neighbouring under voltage standing parts

The rules 4 and 5 are only prescribed for equipment over 1000 V.

Do not be persuaded by third parties to give up the required switching-off while repairing. The above-mentioned meanings of work do not include the troubleshooting, so measurement.

Only use voltage seekers that **comply with the regulations** when troubleshooting. From time to time check voltage seekers to ensure that they are operationally efficient.

Only use tools that are in **good operating condition**. Damaged tools should be immediately repaired or replaced.

Use the available personnel protection equipment and safety clothes to protect you when you are working (e.g. safety glasses, safety gloves safety shoes, etc.).

# 



## General

## **Contents Chapter 3**

- 3.1 Operating Manual
- 3.2 Care and maintenance
- 3.3 Scope of supply
- 3.4 Description
- 3.5 Control box
- 3.6 The suction air system

#### General

#### 3.1 Operating manual

This manual has been written to support the operating personnel on learning the functioning of the dust collector and to guarantee optimum operation and maintenance.



Therefore it is important that all persons operating and maintaining the dust collector read this manual carefully and understand it fully.

The supplied dust collector has been manufactured for being employed in the user's country. All descriptions and notes have been formulated in the language of the user's country or in English in accordance with the statutory regulations, or shown as pictograms. If the customer deploys personnel with little knowledge of the language of the user's country, appropriate instruction and training must be provided.



Before using the dust collector personnel must be familiar with how to operate the machine, with all important components, with the method of working and with its dimensions.



**Blastrac BV** offers a course on the use of the dust collector in order to make the operating and maintenance personnel familiar with all elements of the dust collector.

Initial commissioning of the dust collector must be carried out very carefully. The dust collector operator must fully understand the sequence of commissioning of the individual parts and their functioning.

#### 3.2 Care and maintenance



Special attendance and regular maintenance of the dust collector are imperative for functioning and safety.



#### General

#### 3.3 Scope of supply

Scope of supply of the dust collector:

- Dust collector (BDC-655)
- Operating Manual 2x

## 3.4 Description

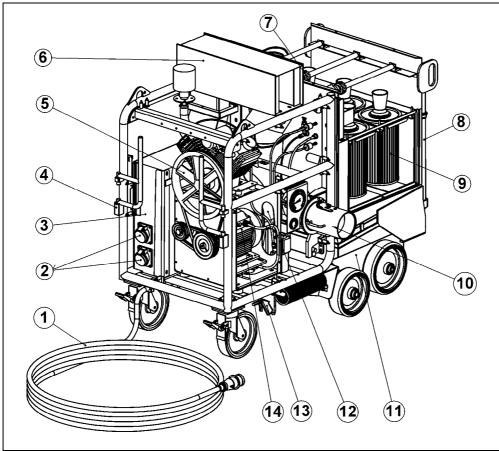


Fig. 3.4.1

- 1 Supply cable
- 2 Socket blast machine
- 3 Control box
- 4 Cable support
- 5 Compressor
- 6 Silencer
- 7 Pulse system complete

- 8 Handle dust bin
- 9 Filter cartridges & lifting system
- 10 Connection blast machine
- 11 Dust bin
- 12 Fan
- 13 Air pistol
- 14 Motor

#### General

#### 3.5 Control box

The control box is equipped with all control elements and instruments for monitoring and controlling the dust collector.



Fig. 3.5.1

- Main switch
- 2 Emergency shutdown switch
- Button "Compressor/Fan OFF"
- Button "Compressor/Fan ON"
- Hour counter

- Control lamp "Thermical Failure" Control lamp "Phase incorrect" 6
- 7
- Button "Screw conveyor ON" (option) 8
- Button "Screw conveyor OFF" (option) 9

#### Main switch

The main switch is located on the main box. It has to be switched on before operating the dust collector and the blast cleaning machine.

#### **Button Compressor/Fan ON/OFF**

Pressing the button "ON" switches the compressor and the fan on, pressing the button "OFF" switches the compressor and the fan off.

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#### General

#### **Control lamp Thermical failure**

This lamp shines when the machine is overloaded.

#### **Control lamp Phase incorrect**

This lamp shines when there is a failure with the phases.

#### **Emergency shutdown switch**

Red mushroom-shaped press switch onto a yellow background. Pressing this switch immediately stops the power supply to all units of the machine, shut down switch requires re-setting after it has been used.

#### 3.6 The suction air system

The air streaming through the complete system during the application of the blast cleaning machine and the dust collector has the following functions:

- Cooling of the blast wheels
- Cooling of the abrasive
- Transport of the abrasive
- ☐ Transport of dust through the system
- ☐ Separation of dust from the re-useable abrasive
- ☐ Transport of dust to the dust collector



**BDC-655** 

#### General

Motor output: 5.5 kW Air throughput: 1250 m<sup>3</sup>/h Connected cable length: 20 m

Dust hose

Length: 20 m

Diameter: 130 / 150 mm



All connection points must be sealed carefully and the dust hose must be fixed and sealed with duct tape or hose clips!

The filter housing must be sealed properly and all sealings must be in good condition!

If dust leaves the dust collector instead of clean air, this is a sign that the filter cartridges are either damaged or not fixed correctly inside the filter chamber.

The air streams through the dust collector as follows:

- ☐ The air stream then flows through the approx. 20 m long flexible dust hose taking dust and fine particles with it.
- ☐ The air stream now enters the filter chamber of the dust collector where the dust and the fine particles are separated from the air. The cleaned air is then fed into the environment again.



# General

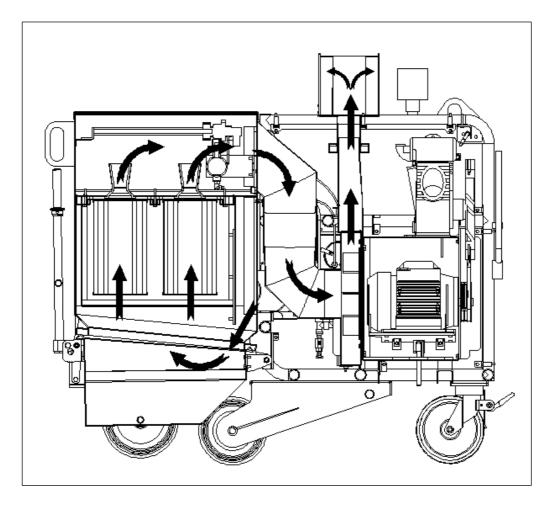


Fig. 3.6.1



General

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## **Transport**

## **Contents Chapter 4**

- 4.1 General information
- 4.2 Transport
- 4.3 Preparations with regard to transport
- 4.4 Unit specifications

#### **Transport**

#### **General information**



Before the dust collector is used for the first time. Blastrac BV authorised dealers offer a course to familiarise maintenance and operating personnel with all elements of the dust collector. We are not liable for damage caused by incorrect use of the dust collector by personnel not trained by Blastrac BV.

#### 4.2 Transport

When transporting the dust collector proceed in such a manner that damage due to the effects of the use of force or incorrect loading and unloading is avoided.



Remove the dust from the dust collector before it is transported. The dust collector may only be lifted by using the suspension eyelets. The weight and dimensions of the dust collector are shown in Chapter 1 "Technical data".

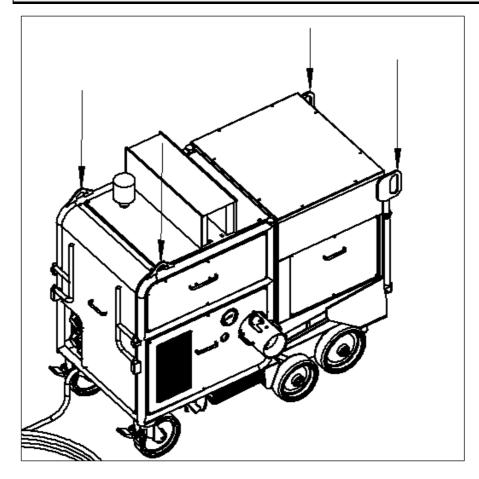


Fig. 4.2.1



#### **Transport**

#### 4.3 Preparations with regard to transport

The machine is operated in accordance with the instructions given in Chapter 5 "Initial operation".



The dustcollector is equipped with a cable support. Wrap the supply cable over it in order to avoid damaging during transport.

Always activate the brakes on the front wheels in order to prevent running away of the machine

> Wheel brakes

Fig.4.3.1



Remove the dust hose connectors in order not to loose them and to avoid damage to the machine and parts.

> **Dust hose** connectors

Fig.4.3.2

#### 4.4 Unit specifications

#### **Dimensions**

The main dimensions and unit specifications of the dust collector when assembled are shown in Chapter 1 "Technical data".





# **Transport**



## **Initial operation**

## **Contents Chapter 5**

- 5.1 Preparations for initial operation
- 5.2 Initial operation



#### **Initial operation**

#### **Preparations for initial operation**



Before switching on make sure that all existing protective housings are mounted and that the dust collector is connected correctly.

Handle all plugs, cables, hoses and operating devices with care. Avoid any contact with live wires.

Works on the electrical system must only be carried out by qualified specialists.



Regular inspection is important in order to avoid downtimes of your dust collector. Carry out the following checks before any start-up:

- $\square$ Check whether all dust collector parts are assembled safely and correctly.
- $\overline{\mathbf{A}}$ Check all screws and other fasteners for tight seat
- $\mathbf{\Lambda}$ Check the tightness of the hose connections and the condition of the hose to the filter.
- $\mathbf{\Lambda}$ Check the electrical connections for dirt and foreign body deposits.
- Check the electrical motors for dirt and other contaminants.  $\overline{\mathbf{A}}$



Before start-up the operating personnel must be familiar with the safety regulations given in this manual.

 $\overline{\mathbf{V}}$ Check the main power cable and the dust hose for damage. Replace or repair all damaged parts before starting the machine.

#### **BDC-655**

# 



### **Initial operation**

- $\mathbf{\Lambda}$ Connect the blast cleaning machine and the dust collector with the dust hose. Use hose clamps or duct tape at the connections.
- $\overline{\mathbf{A}}$ Connect the electric cable of the filter unit with the site supply. Make sure that you use the correct electric supply (Chapter 1.2).

Press the test button to check the function of the residual current operated device!



- $\mathbf{\Lambda}$ Check that the dust container of the dust collector is empty.
- $\overline{\mathbf{A}}$ Check the presence of moisture in the air pulse system by activating the air pistol; releasing air pressure will enable the water separator to drain. This allows a better functioning of the air pulse system.

#### 5.2 Initial operation

All persons in the proximity of the dust collector must wear ear protectors, safety glasses with lateral protection as well as safety shoes. The operator is obliged to wear close-fitting protective clothing.



The start of the dust collector is effected in the following sequence:

- 1 Switching on of the dust collector
- Main switch of the dust collector "ON"
- Compressor/Fan "ON"
- Check the turning direction of the filter and compressor motor.

# **Initial operation**

Fig. 5.2.1



The correct turning (as indicated ) can be checked by visible inspection of the drive unit.



### **Initial operation**

### How to correct the turning direction of the driving motors

- Switch off the driving gears.
- Switch off the main switch.
- Open the control box of the dust collector.
- Set the inverter switch to the opposite position



Inverter switch

Fig.5.2.2

- Close the control box
- Check again the turning direction of the driving gears.
- The initial operations take place in accordance with the chapter "Initial operation" of the operating manual of the blast cleaning machine.

The dust container of the dust collector must be emptied regularly.





**BDC-655** 

# Initial operation



## Operation

### **Contents Chapter 6**

- 6.1 Operation
- 6.2 Connecting the dusthose
- Emptying the dustbin
- 6.4 Air pulse system / water drainage
- 6.5 Switching-off the dust collector
- 6.6 Trouble shooting
- Safety shutdown 6.7
- 6.8 Restarting after a fault
- 6.9 Proceedings- prior and after a stationary period

### **Operation**

### 6.1 Operation

Normal start-up and operation of the dust collector BDC-655 is no different from the procedure described in Chapter 5 "Initial operation".

Make sure that no vehicles, such as forklift trucks and other equipment run over the electric cable and the dust hose.

### 6.2 Connecting the dusthose

To connect a Blastrac machine to the dustcollector, a hose with internal diameter of 130 mm. or 150 mm. can be used.

### Valve 150-130 mm.

This valve is suitable for the 150 mm. hose, as well as the 130 mm. hose.

### Hose 150



Fig.6.2.1

Connect hose 150 and fix with ducttape or hoseclamp.



# Operation

### Hose 130



Slip hose 130 and fix with ducttape.

Fig.6.2.2

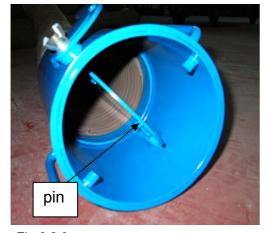


Fig.6.2.3

When inserting the hose 130 mm. in the valve, assure the edge does not exceed the limit pins . Assure the valve can be adjusted freely.

### **Operation**

### 6.3 Emptying the dustbin

The level of the dustbin must be regularly checked. The periods are dependent on the surface to be cleaned.

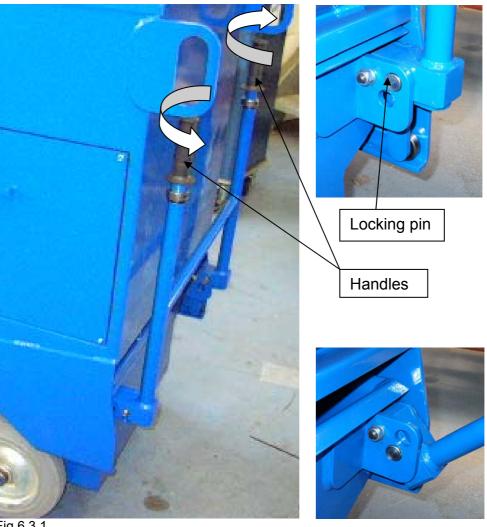


Fig.6.3.1

Rotate the handles in shown direction to release the locking pins. Push the handle down and lock it in lower position to enable separation of the dustbin from the filter house.



### **Operation**





Fig.6.3.2

After emptying the dustbin, carry out the actions in opposite sequence. Ensure that the dustbin is at a correct way repositioned. If not, there can occur a major leakage in the dust collector system.

Safety precaution: Pay attention to the increased weight of the dustbin when you release the locking device. Loosen the handle with caution!





Assure frequently emptying the dustbin. When the level of the dustbin exceeds the limit of its contents, the filters may get clogged up excessively, which then can lead to cracks.

Dust will then access the machine and cause damage to parts and systems of the filter unit.

Dust exceeding the level of the dustbin contents may also lead to a heated up filter unit, which can cause defects to parts and systems of the filter unit.



An indication of dust exceeding the limits of the dustbin contents, can also be recognized by an high indication of the pressure gauge. The gauge is located on the opposite side of the filter house (Fig. 6.3.3). When the value of 8 cm H<sub>2</sub>O (=0.008 bar) or higher is indicated, the dustbin should be checked.

Frequency of checking the dustbin may vary upon the sort of utilisation of the dustcollector.



### **Operation**



### Air pulse system / water drainage

The air pulse system assures that the cartridge filters do not get clogged. An airpulse generated by the compressor blow out the filters from within. Moisture, which is present in the air, is separated by the waterseparator, showed in fig.6.4.1.

This is an automatic device. Except when drained manually, by pressing the outer ring (fig. 6.4.2), it can only function when once in a while the air pressure is relieved from the pulse system.

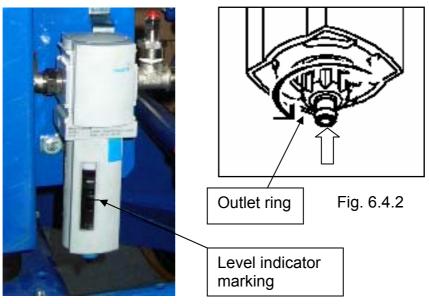
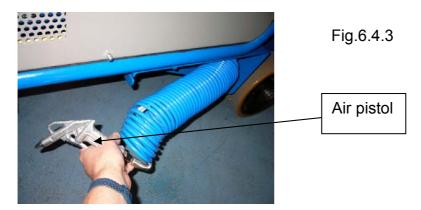


Fig. 6.4.1



### **Operation**

Do this by activating the airpistol, located below on the machine (shown in fig. 6.4.3). Do this at least when emptying the dustbin, the frequency however may vary upon atmospheric humidity.



Assure air pressure relief in order to maintain correct functioning of the water separator. Moisture in the filters can cause clogging up the cartridge filters excessively, which then can lead to cracks.



Dust will then access the machine and cause damage to parts of the filter unit.

#### 6.5 Switching-off the dust collector

- After finishing the blast cleaning process, the dust collector must run several minutes to dedust the filter cartridges.
- After several minutes press the push button "Compressor/Fan OFF".
- Relief air pressure of the pulse system by activating the airpisol.
- Set the main switch of the filter unit to "OFF".

Make sure that all turning dust collector parts have come to standstill before any inspection or maintenance works are started.



When the Blastrac dust collector is put out of operation for a longer period of time, pull out the mains plug and cover the dust collector with a plastic foil.



**BDC-655** 

### **Operation**

#### 6.6 Trouble shooting



Irrespective of the following information, the local safety regulations are valid in any case for the operation of the dust collector.

First put the dust collector to its **Safety off position**. Afterwards start searching for the fault.

#### 6.7 Safety shutdown



The dust collector has to be into its "Safety off position" before starting repair works. See Chapter 2.5 "Safety instructions".

#### 6.8 Restarting after a fault



See Chapter 5 "Initial operation".





All persons in the proximity of the dust collector must wear ear protectors, safety glasses with lateral protection as well as safety shoes. The operator is obliged to wear close-fitting protective clothing.



### **Operation**

### 6.9 Proceedings- prior and after a stationary period

Stand still of the machine for a maximum of 3 months.

### Before a long standstill period

- ☑ Switch off the dust collector. (See chapter 6.5)
- ☑ Protect the electric motors from moisture, heat, dust and shocks.
- ☑ Clean the machine and cover it with a plastic foil.
- ☑ Preserve bright parts of the dust collector with Tectyl 506, for example, or a similar preservative.



See Chapter 5 "Initial operation







**BDC-655** 

Operation

### **BDC-655**

# 



### **Maintenance**

### **Contents Chapter 7**

- 7.1 Recommendations
- 7.2 Maintenance and inspection list
- 7.3 Repairing
- 7.4 V-belt
- 7.5 Mounting V-belt
- 7.6 V-belt tension
- 7.7 Taper-Adaptor sleeve
- 7.8 Replacement of filter cartridges
- 7.9 Air pulse system
- 7.10 Waterseparator
- 7.11 Compressor
- 7.12 Timer unit

#### 7.1 Recommendations



Pay attention to Chapter 2 "Safety information" during maintenance and repair works.

Failures due to inadequate or incorrect maintenance may generate very high repair costs and long standstill periods of the dust collector. Regular maintenance therefore is imperative.

Operational safety and service life of the dust collector depend, among other things, on proper maintenance.

The following table shows recommendations about time, inspection and maintenance for the normal use of the dust collector.

The time indications are based on uninterrupted operation. When the indicated number of working hours is not achieved during the corresponding period, the period can be extended. However a full overhaul must be carried out at least once a year.

Due to different working conditions it can't be foreseen how frequently inspections for wear check's, inspection, maintenance and repair works ought to be carried out. Prepare a suitable inspection schedule considering your own working conditions and experience.

Our specialists will be happy to assist you with more advice.



Prior to any repair works on the dust collector and its drives, secure the dust collector against unintentional switching-on. Put the dust collector to its safety off position. Also make sure there is no air pressure on the pulse system.



Follow additional operating and maintenance of OEM if included during your service and maintenance work.



### **Maintenance**

### 7.2 Maintenance and inspection list

Operating hours/ time period	Inspection points, maintenance instructions
12 h after repairing	Check all accessible screw connections for tight seat.
Daily and prior to starting work	Check all safety devices working adequate. Check the function of the residual current operated device. Check the hose connections for tightness and fixed seat. Check the hose to the filter for damages. Make sure that the dust bin of the filter is emptied Check the electric connections for sediments of dirt or foreign bodies. Check the electric motors for dirt and other contaminants.
Annually	Full overhaul and cleaning of the complete dust collector.
After 50 working hours	Change compressor oil.
After 300 working hours, using mineral oil	Change compressor oil.
After 900 working hours, using synthetic oil	Change compressor oil.

### 7.3 Repairing

As already mentioned in Chapter 5 "Initial operation" we recommend executing the first repair works on the dust collector having support of **Blastrac BV** personnel. Doing this together, your maintenance personnel gets the opportunity to be trained intensely.





#### Maintenance

We will describe only regular maintenance works that could occur within the bounds of regular maintenance or work that is required to replace wear parts.

If you replace parts yourself for specific reason, the following instructions and work sequence have to be observed.



You should also stock all spare or wear parts that cannot be supplied quickly. As a rule, production standstill periods are more expensive than the cost for the corresponding spare part.

Screws that have been removed must be replaced with those of the same quality (strength, material) and design.



Prior to any repair works on the dust collector and its drives, secure the dust collector against unintentional switching-on. Pull out the mains plug in order to do this. Also make sure there is no air pressure on the pulse system.

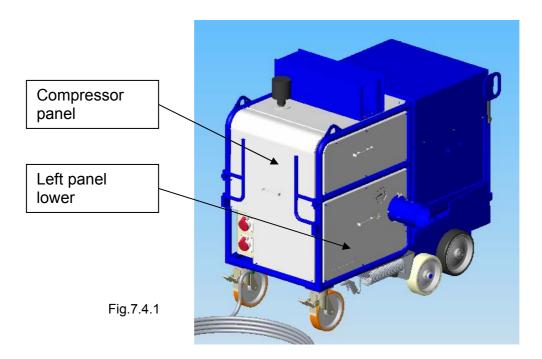


#### **Maintenance**

### 7.4 The V-belts

The V-belt drive is designed for the installed driving power. To force a higher output through an excessive high tension of the V-belt will break the belt, damage bearings and cause losses of the total efficiency. Too low belt tension will cause slipping with the result of a very high temperature of the V-belt a premature destruction of it. Temperatures over 70° for a longer period will decrease the working life and the efficiency of the V-belt. The grooves of the V-belt pulleys must be free of rust, fat and dirt and must not show any damages. The use of belt wax or similar substances in order to increase the friction coefficient is not necessary and it damages the V-belt. Soiling due to oil, grease or chemicals have to be avoided.

In order to get perfect power transmission the V-belt drive has to be checked regularly.



The V-belt drive is located behind the Compressor panel. The V-belt tension device is located behind the Left lower panel.

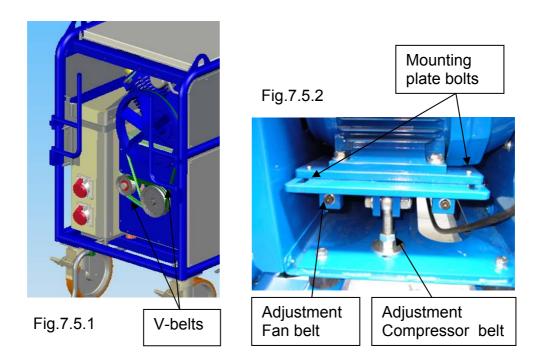


#### Maintenance

### 7.5 V-belt mounting



Remove the belt guards only when the driving motors are in standstill and the main switch of the blast cleaning machine is secured.



### Fan belt:

- 1. Remove the Compressor and the Left lower panel.
- 2. Loosen the mounting plate bolts, there are 4 bolts which are reachable from underneath.
- 3. Loosen the bolts for the adjustment of the fan belt and reduce the distance between the driving motor and the bearing to release the tension of the V-belt drive.
- 4. Remove the old belt.
- 5. Put on the new V-belt in the grooves of the V-belt pulley by hand and without using the force.
- 6. Increase the distance between the driving motor and the bearing to stretch the V-belt as described in paragraph 7.6.
- 7. Fasten the mounting plate bolts.
- 8. Place the Compressor and the Left lower panel back with the appropriate fasteners.



#### **Maintenance**

#### Compressor belt:

- 1. Remove the Compressor and the Left lower panel
- 2. Loosen the adjustment for the Compressor belt .
- 3. Reduce the distance between the driving motor and the Compressor to release the tension of the V-belt drive.
- 4. Remove the old belt.
- 5. Put on the new V-belt in the grooves of the V-belt pulley by hand and without using the force.
- 6. Increase the distance between the driving motor and the Compressor to stretch the V-belt as described in paragraph 7.6.
- 7. Place the Compressor and the Left lower panel back with the appropriate fasteners.

#### 7.6 V-belt tension

The correct V-belt tension is of utmost importance in order to obtain a perfect power transmission and to reach the usual working life of the V-belt. Too low or to high tension causes frequently a premature breakdown of the V-belt. Excessive belt tension results in damaged bearings at drives or scarifying drums.

Check the tension of the V-belt by pressing the thumb on the belt. The belt has the correct tension if you can press it in for approx. 10-15 mm (Fig. 7.6.1).

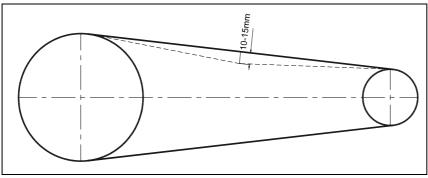


Fig. 7.6.1



#### Maintenance

#### 7.7 **Taper-Adapter sleeve**

Hubs will be fixed like a shrunk-on fit on shafts with the help of taper adapter sleeves. To assembly and disassembly it you need only a screw driver DIN 911 (Allan key). The same set screw or rather the same screws serve to loose and to stretch.

The taper – adapter sleeve are inside cylindrical, outside cone shaped and slotted along the length. The smaller sleeves have in the big face 2 and 3 cylindrical blind holes parallel to the axis. One half lies on the material of the sleeves and the other half lies in the hub and have threads.

Set screws or rather screws will be screwed in with a Allan key to the stop in the face bores. When the screws are powerful tightened, the hub will be drawn on the shaped sleeve and the sleeve will be pressed with force on the shaft.









Fig. 7.7.3

#### **Dismount:**

- 1. Dismount the screws of the belt-pulleys. Lubricate the threads and the coned point of one screw and turn it in the bore, as described in the figure.
- 2. Screw down the screws until the sleeve sits loose in the belt pulley and consequently the structural components are loose on the shaft.
- 3. Remove the belt-pulley and the sleeve from the shaft.

#### **BDC-655**

### **Operating Instructions**



#### **Maintenance**

### **Mount:**

- 1. Make sure that all surfaces they lie superpose are dirt and oil free. Set the sleeve in the belt pulley.
- 2. Lubricate a little the screws and insert it in the designated tap hole.
- 3. Clean the shaft and push the pulley with the sleeve, as a unit, on the shaft and set the structural components. Make sure that the sleeve will be first tightened on the shaft and then the belt pulley lifted up by the sleeve.
- 4. Use a Allan key to tighten the screws progressively and alternately.
- 5. Hit with a hammer the face of the sleeve to make sure that it is seated axial in the pulley. (Use a drift to avoid damages.)
- 6. Now tighten the screws. Hammer and tighten alternately until the screws are tight.



#### 7.8 Replacement of filter cartridges

The Dust collector is provided with a air pulse cleaning system which increases the life of the filter cartridges.

However periodical the filters have to be replaced. This can be checked by the indication of the pressure gauge. The gauge is located on the opposite side of the filter house.

When the value of 8 cm H<sub>2</sub>O (=0.008 bar) is indicated, the filters should be replaced.

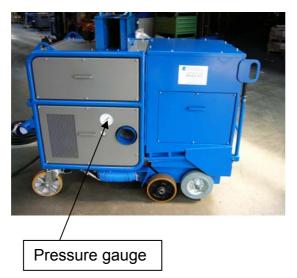




Fig.7.8.1



Remove the upper cover and side door to access the filter cartridges and lifting frame.

Upper cover

Fig.7.8.2

Side door



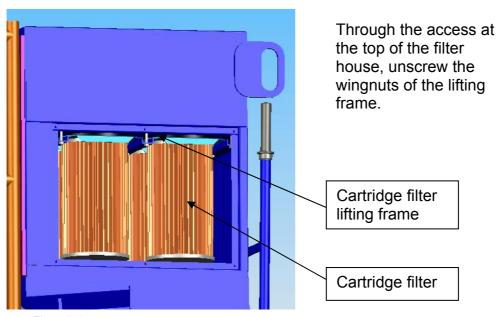


Fig.7.8.3

By mounting new filter cartridges pay attention that their gasket at the upper side lies firm at the sheet steel of the filter chamber. A tilt of the filter cartridge result in leakage and then suction contaminants will enter the clean part and consequently will be blown back into the outer air.





#### 7.9 Air pulse system

The Dust collector is provided with a air pulse cleaning system which increases the life of the filter cartridges.

The system works by use of pressurized air, built up by a belt driven compressor

The air is leaded through a waterseparator to the pulse system.

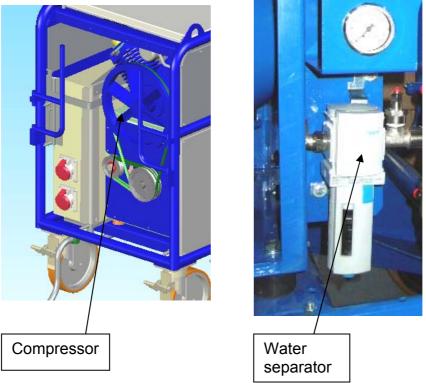
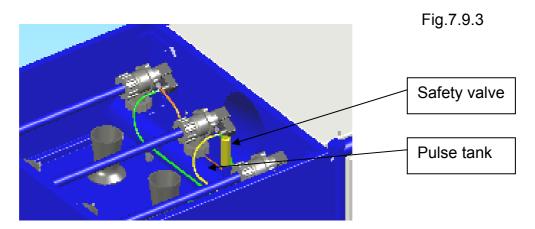


Fig.7.9.2 Fig.7.9.1

The conditioned air then passes a control valve (see fig. 7.9.4), which regulates the systems pressure, and then builds up pressure in the pulse tank.



### **Operating Instructions**



### **Maintenance**



Control valve

Fig.7.9.4

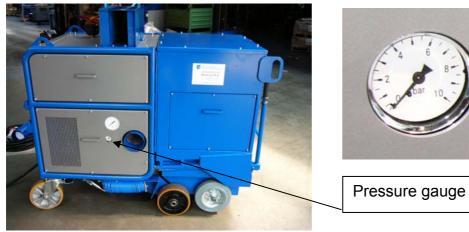


Fig.7.9.5

The pressure in the pulse system is indicated on the pressure gauge. It is mounted in the Filter house next to the vacuum gauge.

Normally the pressure in the system lies between 6 up to 7 bar. This is regulated by the control valve. The safety valve mounted on the pulse tank is activated at approximately 10 bar.

If the pressure of 7 bar is not reached, it is possible that either the filter of the water separator or the air filter of the compressor is dirty. For maintenance instructions on the **waterseparator** see paragraph **7.10.** For maintenance instructions on the **compressor** see paragraph **7.11** 

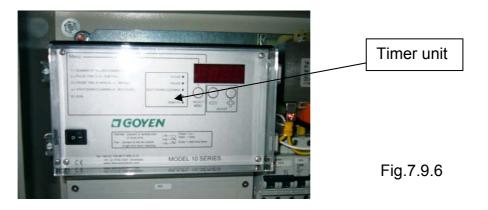
tion on the waterseparator or compressor shows no dirty possible that either there is a leakage in the air tubing, or



#### **Maintenance**

the control valve is defect. In that case replace the defective parts or have it checked by Blastrac.

When there is pressure but the pulse system does not function, there might be a problem in the electrical system which controls the pulsing system. Check the wiring and the timer-unit settings. For timer-unit settings see paragraph 7.12.



### 7.10 Water Separator

Periodically check the level indicator of the waterseparator. If there is condensate level approximately 10 mm below the level indicator marking (see figure 7.10.1) then either press in or turn the outlet ring as shown on figure 7.10.3.

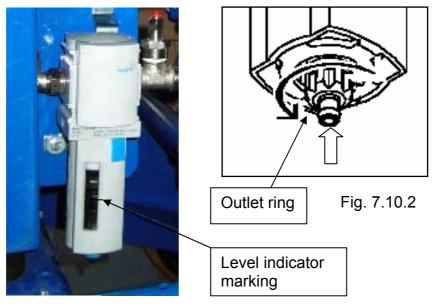


Fig. 7.10.1

In case of less air flow as mentioned in paragraph 7.9, replace the filter of the waterseparator as following:

# **Operating Instructions**



### **Maintenance**

Push unlocking slide down and turn filter bowl in anti-clockwise direction. Then pull filter bowl away from the separator.

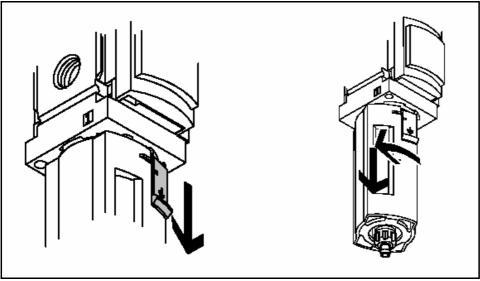
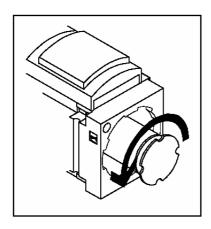


Fig. 7.10.3



### **Maintenance**

Turn the filter screw loose and replace the dirty filter by a new one as shown on figure 7.10.4. Hold the new filter element only at the lower end.



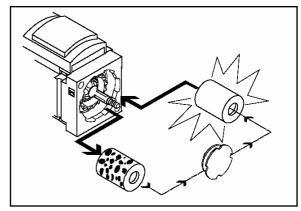
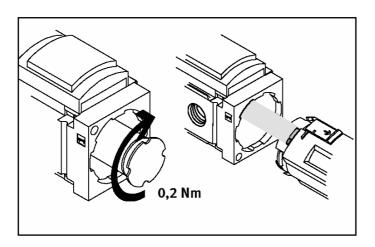


Fig. 7.10.4



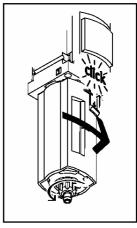


Fig. 7.10.5

Fig. 7.10.6

Fasten the filter screw and place the filter bowl back . Make sure the locking pin points towards the large recess (see figure 7.10.5).

When fastening the filter bowl, make sure you hear a clear snap.



### 7.11 Compressor

The oil level and air filter of the compressor should periodically be inspected acc. to the in table of chapter 7.2 given values. Replacement or cleaning of the air filter is depending on the environment in which the Dust collector is operating.

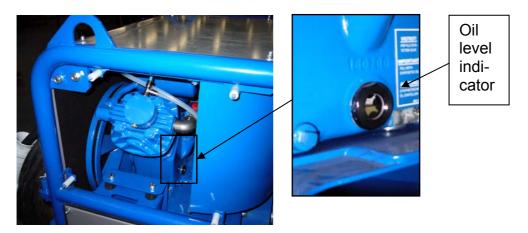
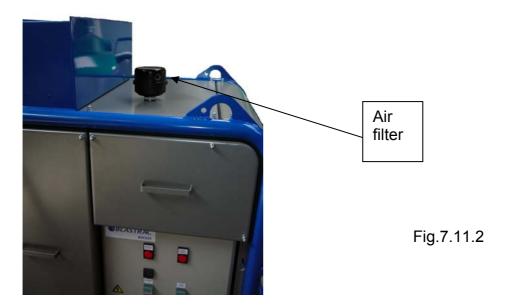


Fig.7.11.1



The height of the oil level oil level must lay on approximately half of the oil level indicator, about 0,25 liter.

Use only oil especially mend for compressors, according specification C.T. 68 (ISO 68 - viscosity).

Prior to draining-off, the compressor unit should have operating temperature.



#### **Maintenance**

### 7.12 Timer-unit

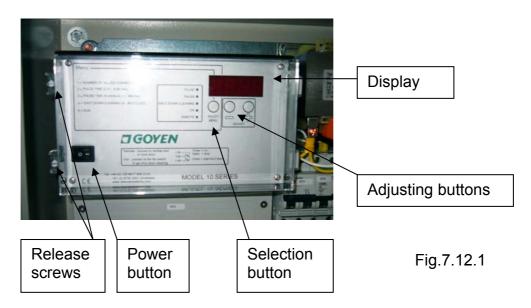
The timer unit controls the air pulse system. This unit is at delivery of the dust collector already programmed with regard to optimal filter cleaning.

If however doubts arise about settings, they can be checked. Always check whether the timer unit is switched on with the power button.

### **Indication on timer unit:**

LED	State	Meaning of LED Panel Display
1	Steady ON	Pulse Time (0.01 - 9.99 sec) The electrical on time of the valves
2	Steady ON	Pause Time (1 - 999 sec) The time that the system will pause between firing the valves
3	Steady ON	Number Valve Selection The number of valves on the system
4	Steady ON	Shut Down Cleaning (0 - 99 cycles)

1	Pulse time	0.25	sec
2	Pause time	15	sec
3	Number valve selection	3	valves
4	Shut down cleaning	50	cycles





Advised is to take contact with Blastrac support in order to prevent operational problems.

### **BDC-655**

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# **Electrical systems**

### **Contents Chapter 8**

- Electric circuit diagrams BDC-655 EC version
- 8.2 Electric circuit diagrams BDC-655 UL version





# **Electrical systems**

## 8.1 Electric circuit diagrams BDC-655 – EC - version

PROJECT Client Name	: BLASTRAC BV : 655DC Dust Collector	Particulars:	
SUPPLIER Draw.number Order number	: PJ04.02431T1A :	Supplier Contact Telephone Telefax E-MAIL	: BLASTRAC BV :: +31(0)30-6018866 :: +31(0)30-6018333
DATA Arch.number Calc. number Status	: PJ04.02431T1A : : For Approval		
Start of project Latest change	: 23.09.2004 : 21.03.2005 ( RJO )	Highest page number Number of pages	: 10 : 10

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# **Operating Instructions**



# **Electrical systems**

5 RJO RJO RJ0 RJO RJO RJO RJO RJO 17.03.2005 18.03.2005 18.03.2005 23.09.2004 24.09.2004 23.09.2004 S<sub>S</sub> RJO RJO RJO gKu GKu 9KU S S2 RJO Switch cabinet summary Symbol explanation Terminal strip X3 Terminal strip X1 Main current Front page Connector ξį 5

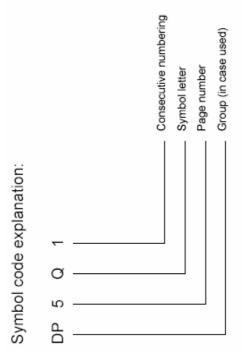


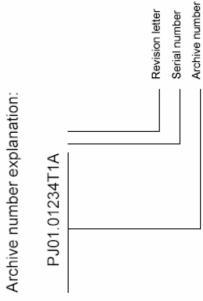






# **Electrical systems**





-Yellow / Green -Light blue -Black

2 7

-Black -Black

Wire color:

Main-voltage:

-Red -Red Control-voltage alternating-voltage (AC) Hook-up wire

Phase

-Violet

Control-voltage direct-voltage (DC)

-Dark blue Dark blue Grey Hook-up wire

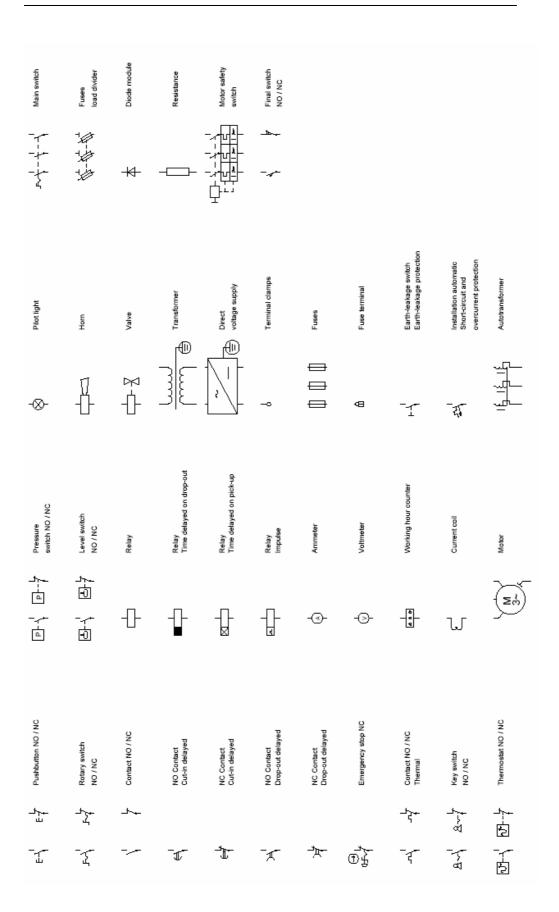
Potential free and stranger-voltage:

Potential free Test lead

-Orange -White

# **Operating Instructions**



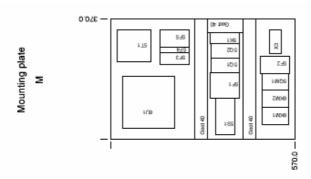




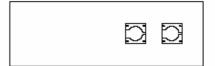




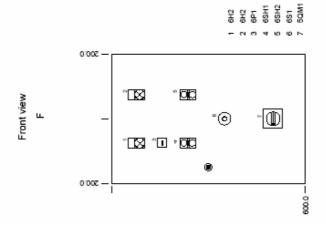
# **Electrical systems**



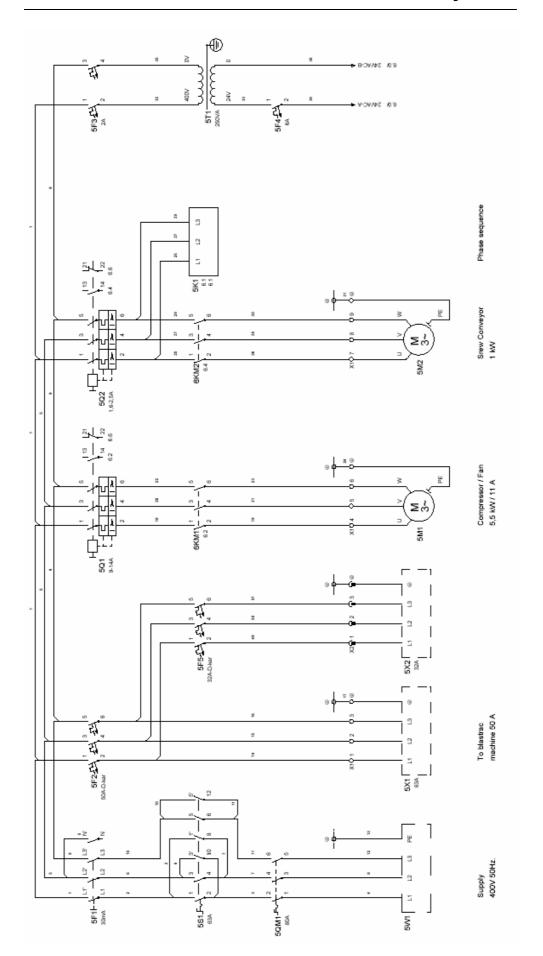
Rightside-view





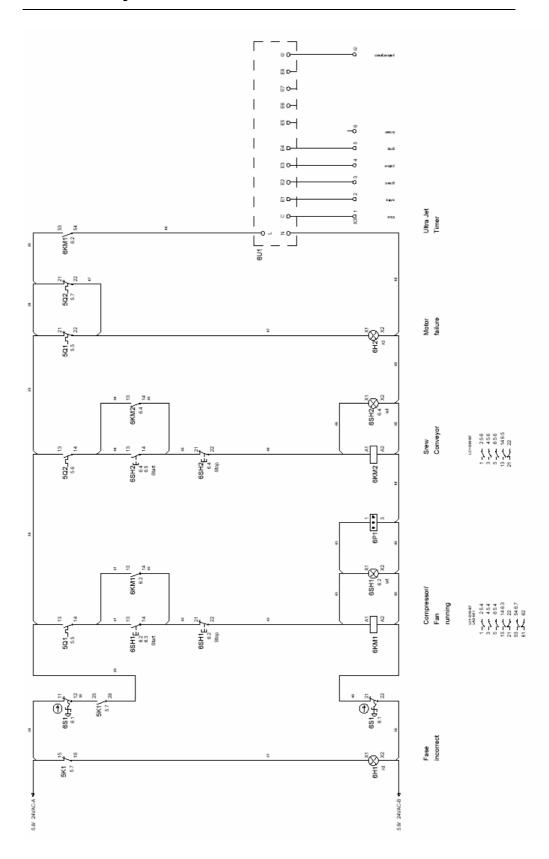




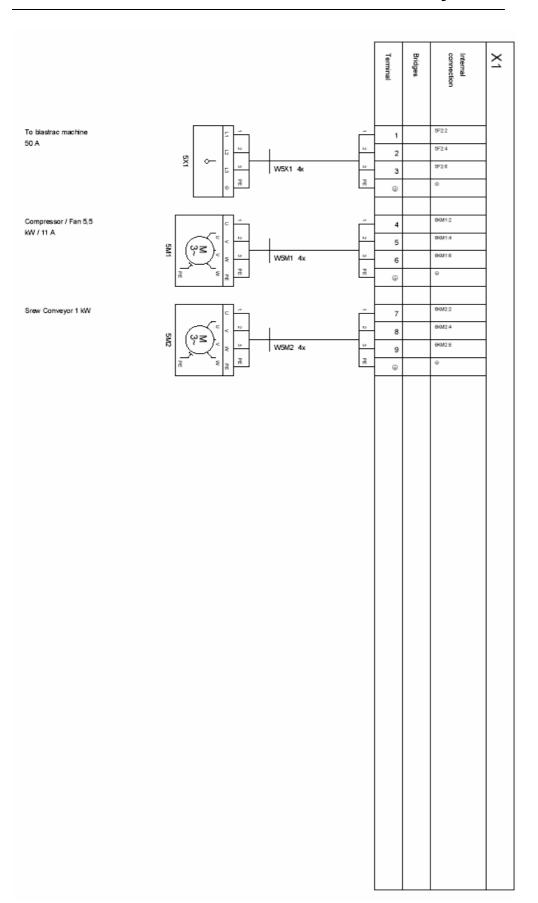






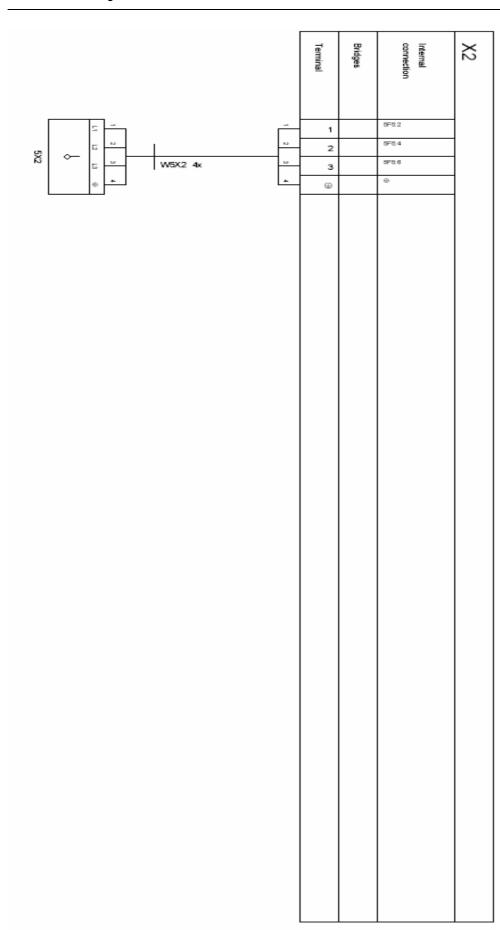














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Terminal	Bridges	Internal	X
<u>.</u>	-	Š	
1		ØJ1:C	
2		6J1:E1	
3		6U1:E2	
4		6U1:E3	
5		6U1:E4	
6			]
•		8U1:0	]







### 8.2 Electric circuit diagrams BDC-655 – UL - version

PROJECT		Particulars:	
Client Name	: BLASTRAC BV : 655DC UL Dust Collector		
SUPPLIER		Supplier Contact	: BLASTRAC BV
Draw.number Order number	: PJ04.02500T1A :	reiephone Telefax E-MAIL	+31(0)30-6018333
DATA			
Arch.number Calc. number	: PJ04.02500T1A :		
Status	: As Built		
Start of project Latest change	: 23.09.2004 : 26.04.2005 ( GKU )	Highest page number Number of pages	7 : 8 :

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GKU GKU 23.09.2004 26.11.2004 26.04.2005 26.04.2005 23.09.2004 23.09.2004 26.04.2005 20 5 5 5 5 5 ₿ Switch cabinet summary Symbol explanation Control current

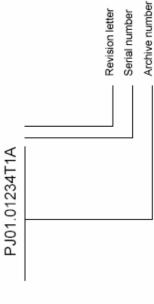




# **Electrical systems**

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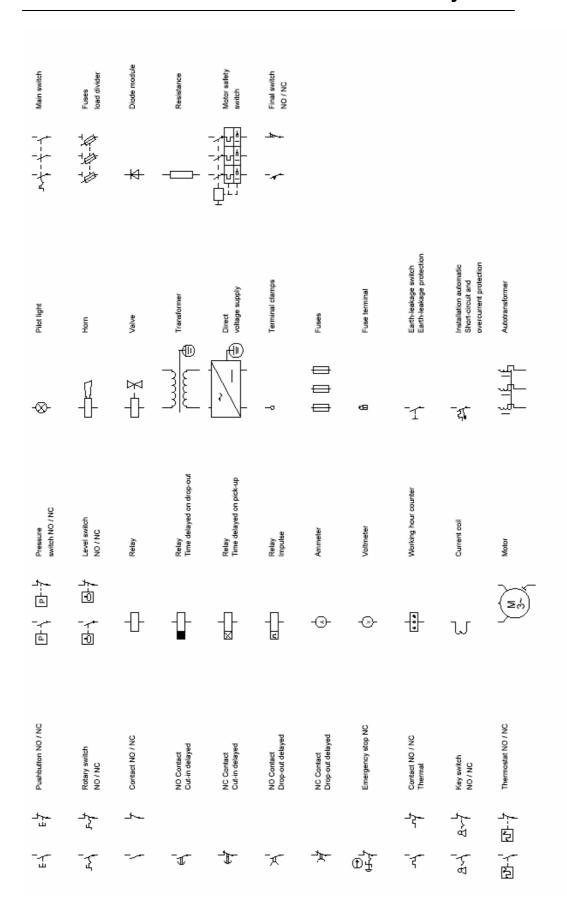


-White

Test lead

# **Operating Instructions**

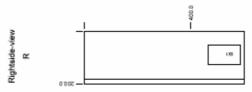


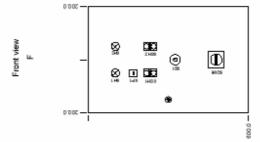


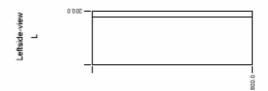






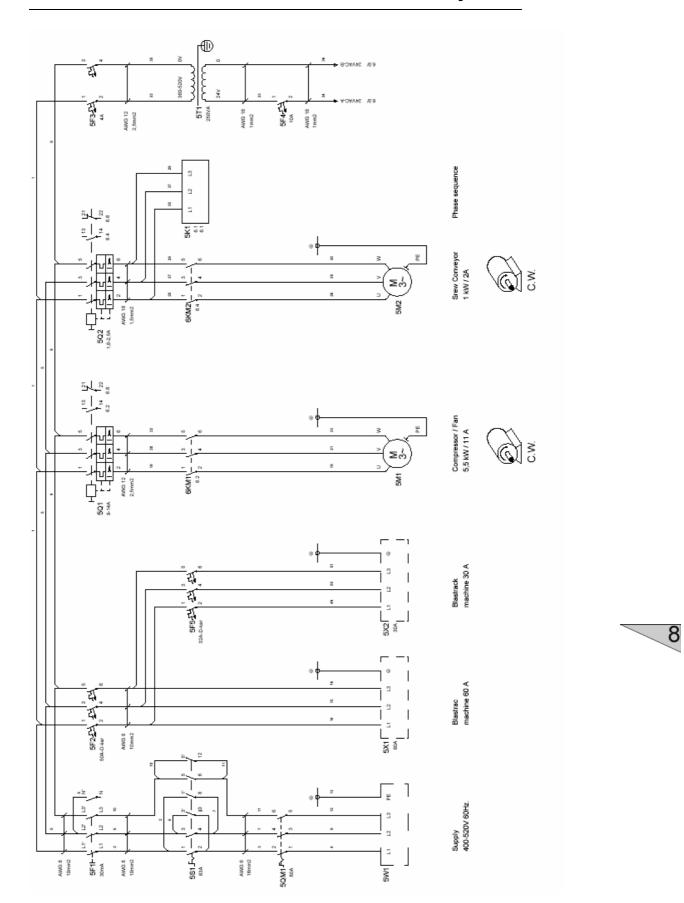












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# Fault diagnosis

### **Contents Chapter 9**

- 9.1 Fault diagnosis dust collector
- 9.2 Fault diagnosis electrical system



### **Fault diagnosis**

### 9.1 Fault diagnosis - dust collector



Prior to any repair works on the equipment or its drives the equipment must be secured against unintentional switchingon. Put the machine to its Safety off position.

Fault	Possible cause	Remedy
Unusual noises.	To little clearance or wrong adjustment of the rotating parts.	Check the adjustment of the rotating parts. Check screws and all parts for tight seat.
To low pressure or any pressure.	Check the whole pneumatic system for leaks.	Stop up the leaks or replace the damaged components.
		Check settings of control valve or replace it when defect.
		Replace filter element of waterseparator when dirty.
	Check the tension of the V-belt compressor.	Stretch the V-belt
Any suction power.	Dirty filter cartridge.	Clean or replace the filter cartridge.
	Check the tension of the V-belt fan.	Stretch the V-belt.
	Foreign airs through leaks in the hopper or in the housing cover seal.	Replace the seal.
Bad or any dedusting.	To low air pressure in pulse air system.	See over.
	Dedusting timer card or solenoid valve defective.	Replace defective parts.



# Fault diagnosis

Loud running noises.	It is missing grease in fan bearing.	Lubricate the fan bearing.
	Silencer assembly defective.	Replace it.
	Oil level of compressor to low	Fill compressor oil level up.



# **BLASTRAC** Operating Instructions

### **Fault diagnosis**

### 9.2 Fault diagnosis electrical-system



Prior to any repair works on the equipment or its drives the equipment must be secured against unintentional switchingon. Put the machine to its Safety off position..

Fault	Possible cause	Remedy
Fan/ compressor does not	Motor protections switch triggered.	Check the mains power supply and next switch on again.
switch on.		Check voltage and existence of 3 fases.
Control lamp for motor protection	Motor protections switch triggered.	Switch on again the motor protections.
switch flashes.	Overload current because of defective equipment (Motor, etc).	Have the unit checked by an electrician.
Control switches off while working.	Dust collector safety fuse or residual current operated device has triggered.	Have the unit checked by an electrician.
	Connection cable is defective.	Replace the cable.
	Main switch of the dust collector switches off due to overload.	Main switch "Off", with fault, have the unit checked by an electrician.

Note: If the motor protection switches off the blast wheel motor, triggered by overload, they can be switched on again after a short cooling down period.

BDC-655	Operating Instructions	<b>⊜</b> BLASTRAC
	Spare parts	
Contents Chapter 10		

10.1 Spare parts



# BLASTRAC Operating Instructions

# **Spare parts**

### 10.1 Spare parts list for dust collector BDC-655

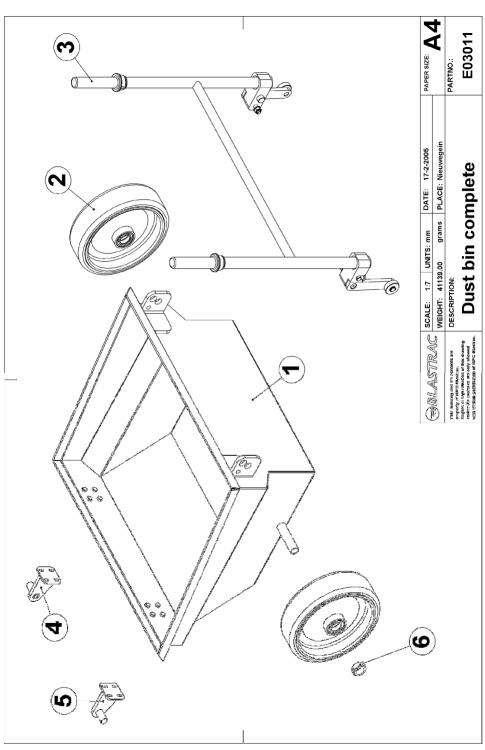




Fig.10.1

# 



# **Spare parts**

# **Dustbin complete**

E03011 – DUSTBIN COMPLETE			
ITEM	PART-NO.	DESCRIPTION	CTY.
1	E03012	DUST BIN	1
2	B20969	WHEEL	2
3	E00890	HANDLE COMPLETE	1
4	E03013	DUST BIN HOLDER LEFT	1
5	E03014	DUST BIN HOLDER RIGHT	1
6	E03747	ADJUSTING RING WITH SCREW	2



# **BLASTRAC** Operating Instructions

# **Spare parts**

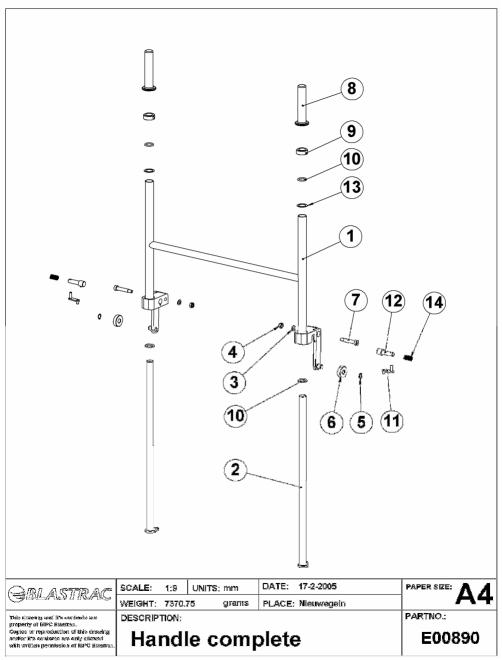


Fig.10.2



# 



# **Spare parts**

# Handle complete

E00890 – HANDLE COMPLETE			
ITEM	PART-NO.	DESCRIPTION	QTY.
1	E00891	HANDLE	1
2	E00895	INNER HANDLE	2
3		M10 WASHER	2
4		M10 NUT PLASTIC INSERT NUT	2
5		CIRCLIP DIN 471 - 15 X 1	2
6	E01304	BALL BEARING	2
7	E03113	HEXAGON SOCKET HEAD SHOULDERS SCREW M10 -12X50	2
8	453290	HANDLE GRIP	2
9	E03747	ADJUSTING RING WITH SCREW	2
10	E03081	O – RING Ø25 X 4	4
11	E00896	ARM FOR LOCKING PIN	2
12	E00897	LOCKING PIN	2
13		SHIM 26 X 37 X 1	2
14	E03072	SPRING	2



# Spare parts

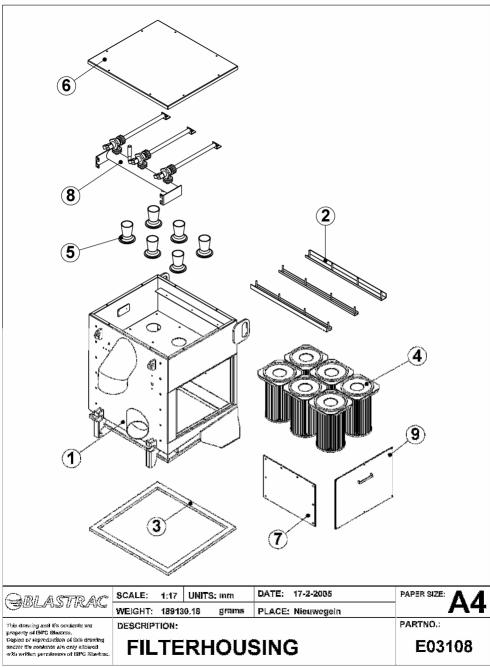


Fig.10.3

# 



# **Spare parts**

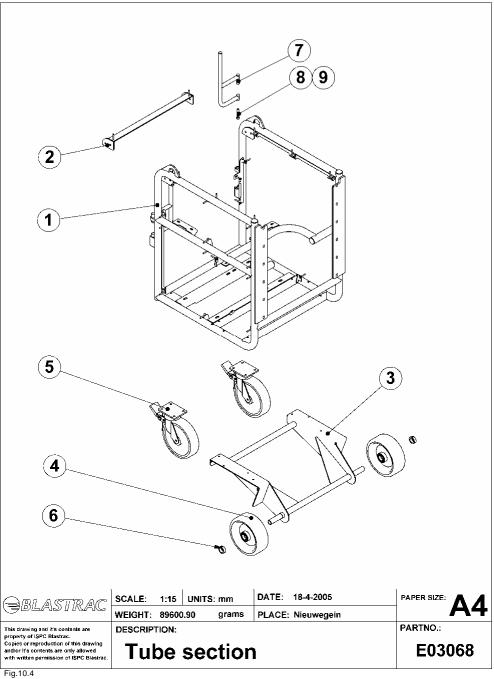
# Filterhousing

E03108 - FILTERHOUSING			
ITEM	PART-NO.	DESCRIPTION	QTY.
1	E03015	FILTER BODY	1
2	E03016	CARTRIDGE LIFTER SYSTEM	1
3	E01309	SEAL	ЗМ
4	E10218	CARTRIDGE	6
5	E14028	VENTURI	6
6	E03020	COVER PLATE	1
7	E00881	RUBBER IMPACT PLATE	1
8	E03031	PULSE SYSTEM COMPLETE	1
9	E03018	SIDE DOOR	1



# **BLASTRAC** Operating Instructions

# **Spare parts**



# 



# **Spare parts**

# **Tube section**

E03068 – TUBE SECTION			
ITEM	PART-NO.	DESCRIPTION	QTY.
1	E03063	TUBE FRAME	1
2	E03067	STIFFENER BEAM	1
3	E10407	FRONT AXIS DEVICE UNIT	1
4	E10202	WHEEL	2
5	E10207	SWIVEL CASTOR WITH BRAKE	2
6	E03748	ADJUSTING RING WITH SCREW	2
7	E03082	CABLE SUPPORT	2
8	E03119	SPRING	2
9		M10X60 HEX.SOCKET HEAD CAP	2



# **Spare parts**

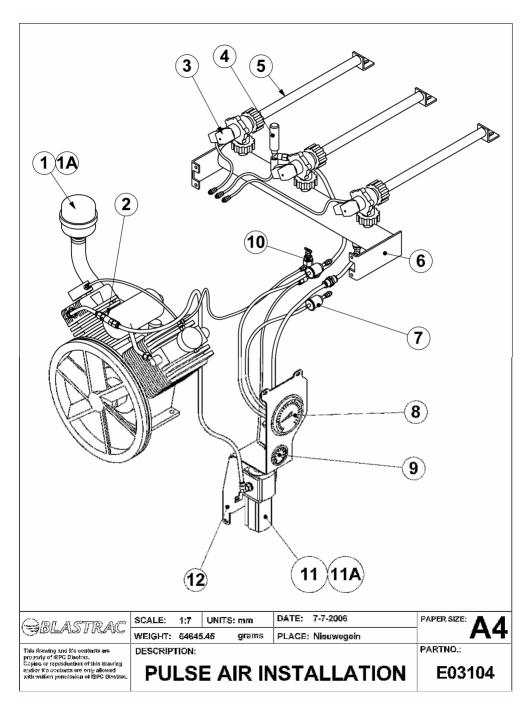


Fig.10.5

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# **Spare parts**

# Pulse system (1)

Serial nr. 2148B, 2151B up to / incl. 2155B

	E03104 – PULSE AIR INSTALLATION			
ITEM	PART-NO.	DESCRIPTION	QTY.	
1	001244	AIR FILTER	1	
1A	656384	FILTER ELEMENT ONLY	1	
2	B21750	NON RETURN VALVE	1	
3	E01300	AIR VALVE	3	
4	E01303	SAFETY VALVE	1	
5	E03033	PULSE TUBE	3	
6	E03032	TANK PULSE SYSTEM	1	
7	2381-365	FILTER VACUÜM GAUGE	2	
8	491837	VACUÜM GAUGE	1	
9	E10349	MANOMETER	1	
10	490691	CONTROL VALVE COMPRESSOR	1	
11	E00635	WATER SEPARATOR	1	
11A	E00635/1	FILTER ELEMENT FOR WATER SEPARATOR	1	
12	E03075	MOUNT PLATE	1	



# **BLASTRAC** Operating Instructions

# **Spare parts**

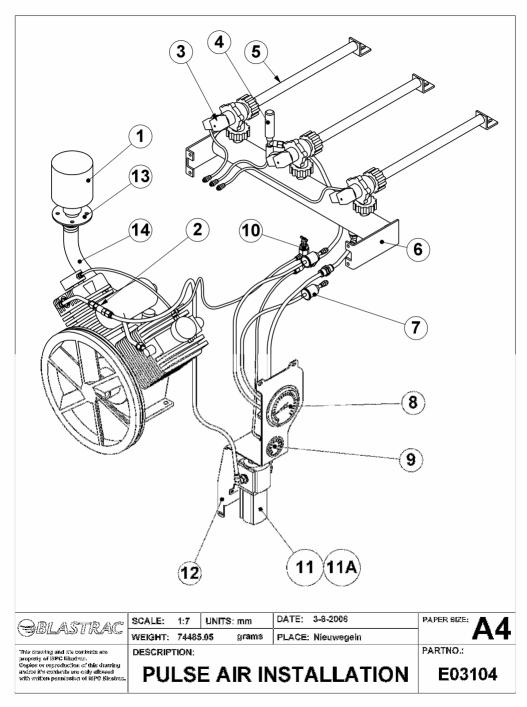


Fig.10.6

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# **Spare parts**

# Pulse system (2)

Serial nr. 2156B and up

E03104 – PULSE AIR INSTALLATION						
ITEM	PART-NO.	DESCRIPTION	QTY.			
1	E03815	AIR FILTER	1			
2	B21750	NON RETURN VALVE	1			
3	E01300	AIR VALVE	3			
4	E01303	SAFETY VALVE	1			
5	E03033	PULSE TUBE	3			
6	E03032	TANK PULSE SYSTEM	1			
7	2381-365	FILTER VACUÜM GAUGE	2			
8	491837	VACUÜM GAUGE	1			
9	E10349	MANOMETER				
10	490691	CONTROL VALVE COMPRESSOR	1			
11	E00635	WATER SEPARATOR	1			
11A	E00635/1	FILTER ELEMENT FOR WATER SEPARATOR	1			
12	E03075	MOUNT PLATE	1			
13	E03816	FILTER ADAPTOR	1			
14	E01563	AIR SUCTION HOSE	1			



# **Spare parts**

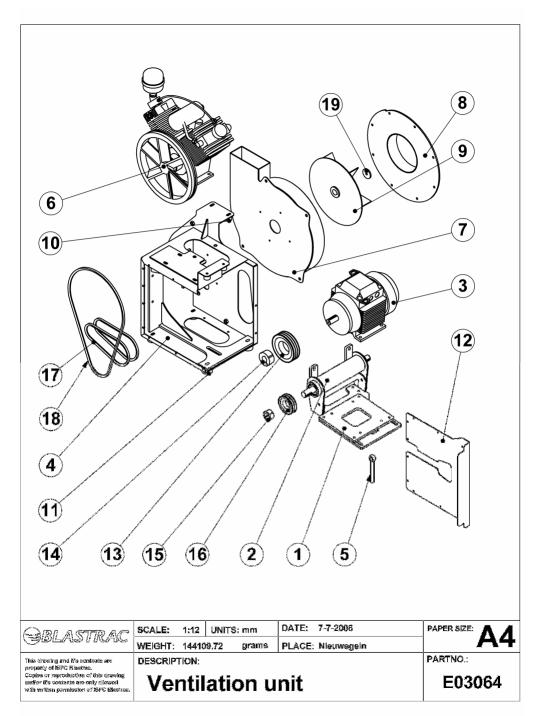


Fig. 10.7

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# **Spare parts**

# Ventilation unit

E03064 – VENTILATION UNIT							
ITEM	PART-NO.		DESCRIPTION	QTY.			
	50 HZ	60 HZ					
1	E03069		HINGE PLATE ASSY	1			
2	E00999		BEARING UNIT COMPLETE	1			
3	E10213		MOTOR 5.5 KW	1			
4	E03071		MOTOR HOUSING	1			
5			M16 X 140 EYE BOLT	1			
6	490693		COMPRESSOR	1			
7	E03142		FAN HOUSING	1			
8	E03150		FANCOVER	1			
9	493399		FAN IMPELLER	1			
10	E10422		SHOCK ABSORBER	4			
11	E10418		SHOCK ABSORBER	4			
12	E03077		PROTECTION PLATE	1			
13	E10413	E00275	BELT PULLEY	1			
14	E10415		TAPER LOCK BUSH	1			
15	B22078		TAPER LOCK BUSH	1			
16	DG14		BELT PULLEY	1			
17	E03103		V-BELT	2			
18	E03102		V-BELT	1			
19	E03195		RING FAN	1			



# Spare parts

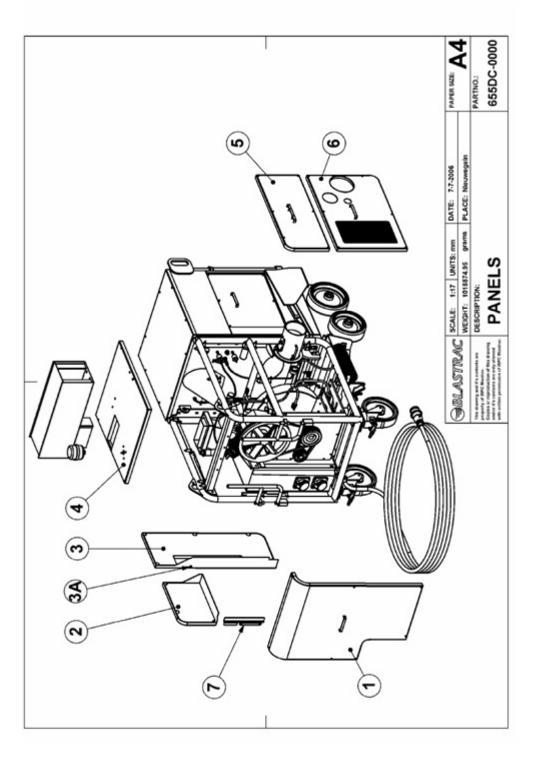




Fig. 10.8



## **Spare parts**

#### **Panels**

	655DC-0000 - PANELS				
Item	Part-No.	Description	Qty		
1	E03091	PANEL COMPRESSOR COMPLETE	1		
2	E03093	PANEL BOX COVER COMPLETE	1		
3	E03094	PANEL RIGHT COMPLETE	1		
ЗА	E03106	GROMMET	1		
4	E03823	PANEL TOP COMPLETE -	1		
		(SERIAL NR. 2148B, 2151B TO / INCL. 2155B			
4	E03853	PANEL TOP COMPLETE -	1		
		(SERIAL NR. 2156B AND UP)			
5	E03098	PANEL LEFT UPPER COMPLETE	1		
6	E03097	PANEL LEFT LOWER COMPLETE	1		
7	E03092	COVER ANGLE	1		



### **Spare parts**

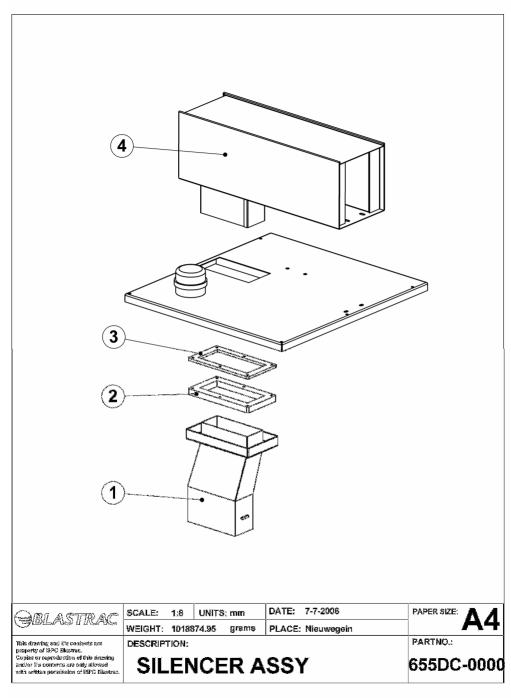


Fig. 10.9



### **Spare parts**

#### Silencer assy

655DC-0000 - SILENCER ASSY			
Item	Part-No.	Description	Qty
1	E03791	ADAPTOR (SHIFTING) -	1
		(SERIAL NR. 2148B, 2151B TO / INCL. 2156B	
1	E03801	ADAPTOR (STRAIGHT) -	1
		(SERIAL NR. 2157B AND UP)	
2	E03795	SEAL PLATE RUBBER	1
3	E03794	PRESS PLATE	1
4	492425	SILENCER	1



## **BLASTRAC** Operating Instructions

**BDC-655** 

### **Spare parts**

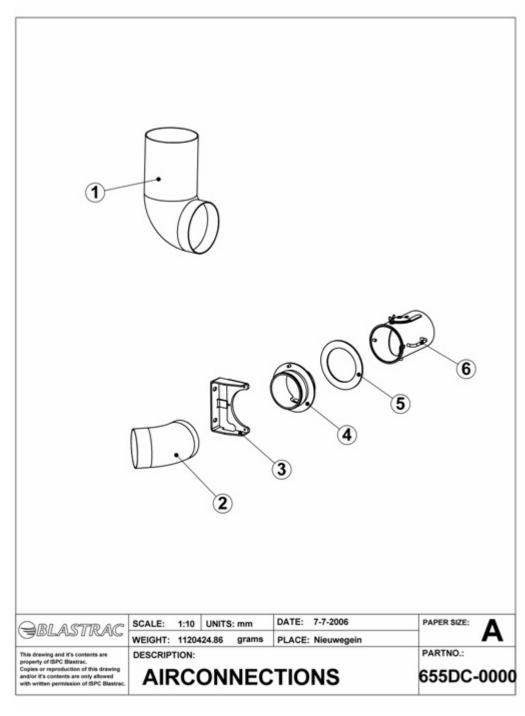


Fig. 10,10





#### **Spare parts**

#### **Airconnections**

Serial nr. up to incl. 2162B

655DC-000 - AIRCONNECTIONS			
ITEM	PART-NO.	DESCRIPTION	QTY.
1	490706	CONNECTION HOSE 200 L=600	1
2	E03128	CONNECTION HOSE 150 L=250	1
3	E03084	CONNECTION SUPPORT	1
4	E03083	CONNECTION PART	1
		(SERIAL NR. UP TO INCL. 2162B)	
5	E03105	ADAPTER SEAL	1
		(SERIAL NR. UP TO INCL. 2162B)	
6	E03096 – REV.E	VALVE COMPLETE Ø150 - Ø130	1
		(SERIAL NR. UP TO INCL. 2162B)	



## BLASTRAC Operating Instructions

**BDC-655** 

#### **Spare parts**

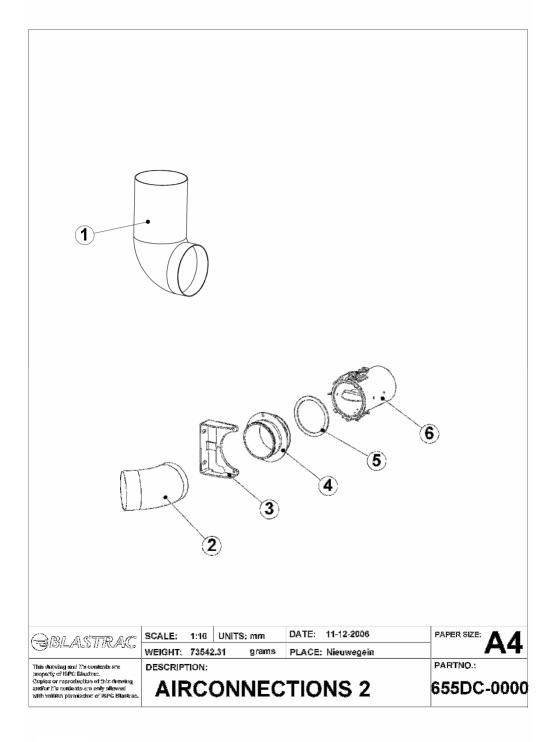


Fig. 10,11



#### **Spare parts**

#### **Airconnections 2**

Serial nr. 2163B and up

655DC-000 – AIRCONNECTIONS 2			
ITEM	M PART-NO. DESCRIPTION		QTY.
1	490706	CONNECTION HOSE 200 L=600	1
2	E03128	CONNECTION HOSE 150 L=250	1
3	E03084	CONNECTION SUPPORT	1
4	E03798	CONNECTION PART	1
		(SERIAL NR. 2163B AND UP )	
5	E03874	ADAPTER SEAL	1
		(SERIAL NR. 2163B AND UP)	
6	E03797	VALVE COMPLETE Ø150 - Ø130 (SERIAL NR. 2163B AND UP )	1



## Spare parts

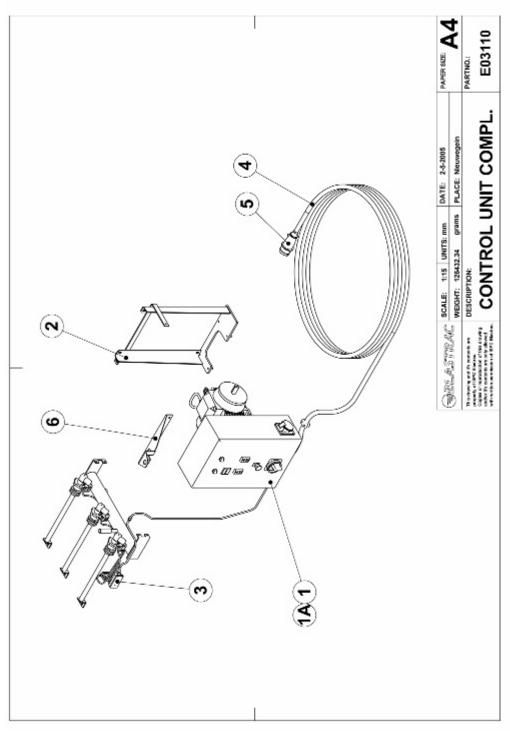


Fig.10.12





### **Spare parts**

#### **Control system**

E03110 – CONTROL UNIT COMPLETE				
ITEM	PART-NO. DES		DESCRIPTION	QTY
	50 Hz	60 Hz		
1	E10346	E03171	CONTROL PANEL	1
1A	E01301		TIMERUNIT	1
2	E03079		INSTR.PANEL SUPPORT	1
3	E03109		PULSE CABLE COMPLETE	1
4	999-3346/15	E00608	NEOPRENE CABLE (L=15 MTR.)	1
5	500-3195	INCLUDED I N E00608	PLUG	1
6	E03126		SUPPORT AIRFILTER	1



## **BLASTRAC** Operating Instructions

**BDC-655** 

#### **Spare parts**

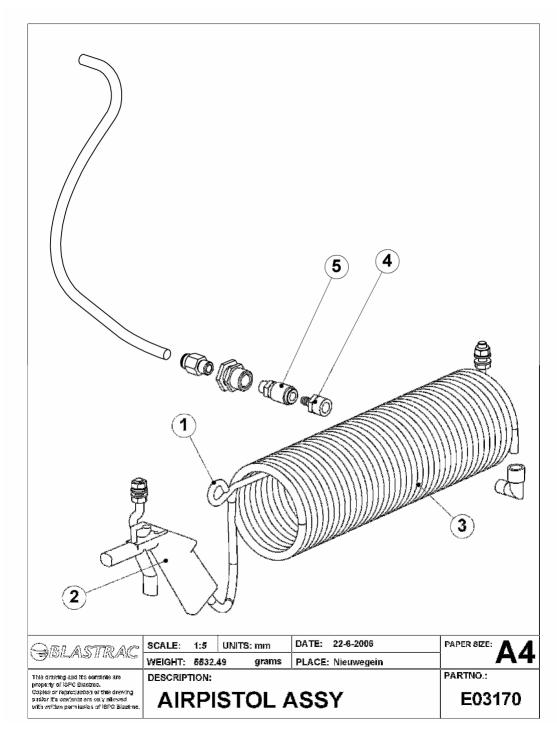


Fig.10.13



## **Spare parts**

## Air pistol

E03170 – AIRPISTOL ASSY				
ITEM	PART-NO.	DESCRIPTION	QTY.	
1	E03160	HOSE CLIP	1	
2	DA—9290.1	AIRPISTOL	1	
3	DA—9290.2	AIRHOSE 6 MM. L 5 MTR.	1	
4	E03168	MINI-QUICKCOUPLING	1	
5	E03169	MINI-NIPPEL	1	



#### **BLASTRAC** Operating Instructions **BDC-655 Spare parts**